

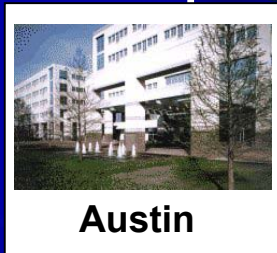
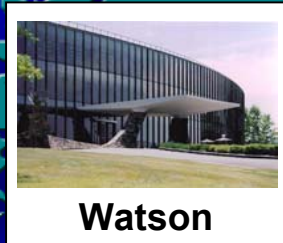
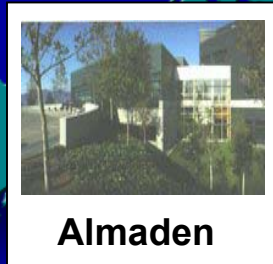


IBM Research Division

IBM Research Overview

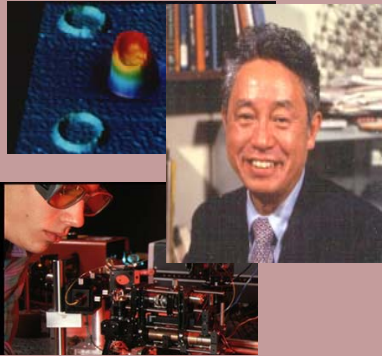
Christopher Codella, Ph.D.
Deputy CTO, IBM Federal
August 2003

IBM Research

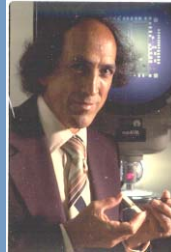


External Recognition

5 Nobel Laureates



5 National Medals of Technology

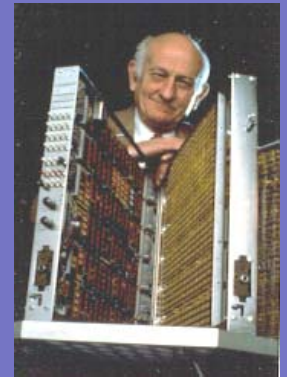


4 National Medals of Science

Typical mathematical formulae:
 $D=B^2-4AC$
 Equivalent FORTRAN statement:
 $D=B**2-4*A*C$

ENIAC Mathematics of discrete optimization

4 Turing Awards



20 in National Academy of Sciences



Over 330 Society Fellows



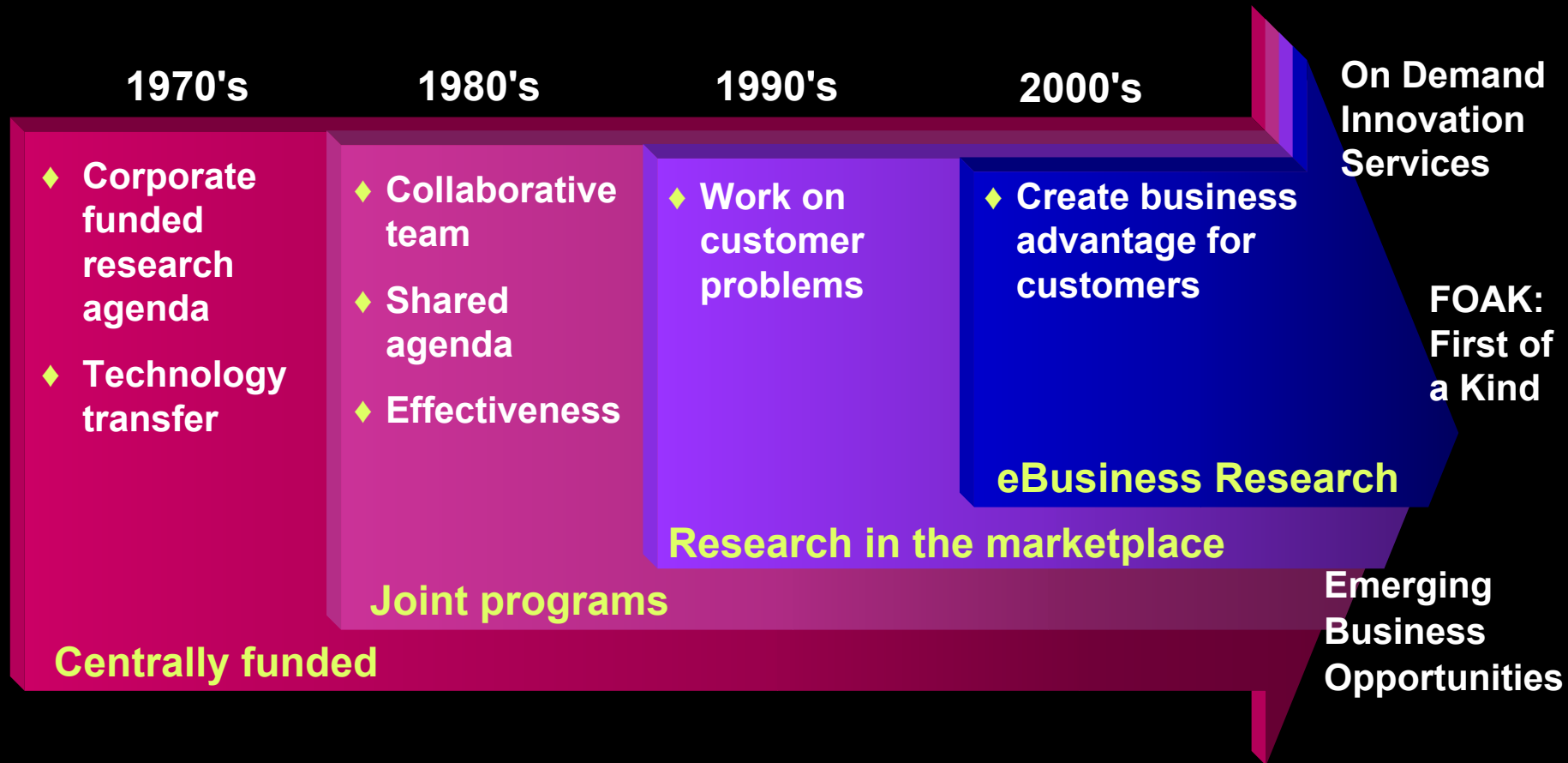
57 in National Academy of Engineering



#1 In U.S. Patents



Evolution of Role



Global Technology Outlook

“I think there is a world market for maybe five computers.”

Thomas Watson, chairman of IBM, 1943

“There is no reason why anyone would want a computer in their home.”

Ken Olsen, president, chairman and founder of Digital Equipment Corp., 1977

“640K ought to be enough for anybody.”

Bill Gates, chairman and founder of Microsoft, 1981

“I predict the Internet will soon go spectacularly supernova and, in 1996, catastrophically collapse”

Bob Metcalfe, co-inventor of Ethernet and founder of 3Com Corporation, 1995

GTO Chapters

- **Technology Update**
- **Modular Systems**
- **The Emergence of the “On Demand World”**
- **Data Explosion**
- **Business Resilience**